

California Department of Fish and Game  
Natural Diversity Data Base

Maggie Creek: Rio Linda Quadrangle

ARDEA HERODIAS

GREAT BLUE HERON

Element Code: ABNGA04010

—List Status—	—NDDB Element Ranks—	—Other Lists—
Federal: None	Global: G5	CDFG Status:
State: None	State: S4	

—Habitat Associations—

General: (ROOKERY) COLONIAL NESTER IN TALL TREES, CLIFFSIDES, AND SEQUESTERED SPOTS ON MARSHES.

Micro: ROOKERY SITES IN CLOSE PROXIMITY TO FORAGING AREAS: MARSHES, LAKE MARGINS, TIDE-FLATS, RIVERS AND STREAMS, WET MEADOWS.

Occurrence No. 16	Map Index:11341	—Dates Last Seen—	Lat/Long: 38°39'46" / 121°28'02"	Township: 09N
Occ Rank: Poor		Element: 1988-03-XX	UTM: Zone-10 N4280263 E633360	Range: 05E
Origin: Natural/Native occurrence		Site: 1988-03-XX	Precision: NON-SPECIFIC	Section: 05 Qtr NW
Presence: Presumed Extant			Symbol Type: POINT	Meridian: M
Trend: Unknown			Radius: 1/5 mile	Elevation: 30 ft
Main Source: VENNARD, M. 1988 (OBS)				
Quad Summary: RIO LINDA (3812164/512B)				
County Summary: SACRAMENTO				
SNA Summary: Ascot Road Vernal Pools				
Location: DRY CREEK, 0.5 MI S OF JCT OF WEST 2ND ST AND ASCOT AVE, RIOLINDA.				
—Comments—				
Distribution:				
Ecological: HABITAT CONSISTS OF A LARGE OAK TREE ALONG A DRY CHANNEL OF DRY CREEK.				
Threat: THREATENED BY PROPOSED GOLF COURSE; NEST TREE STANDS IN THE DRIVING RANGE, AS PRESENTLY PLANNED.				
General: THIS IS THE ONLY REMAINING ROOKERY SITE KNOWN IN THE NW PART OF SACRAMENTO COUNTY. BOTH GREAT EGRETS AND GREAT BLUE HERONS NEST HERE.				
Owner/Manager: CITY OF SACRAMENTO				

California Department of Fish and Game  
Natural Diversity Data Base

Magpie Creek: Rio Linda Quadrangle

ARDEA ALBA

GREAT EGRET

Element Code: ABNGA05010

—List Status—

Federal: None  
State: None

—NDDB Element Ranks—

Global: G5  
State: S4

—Other Lists—

CDFG Status:

—Habitat Associations—

General: (ROOKERY) COLONIAL NESTER IN LARGE TREES.

Micro: ROOKERY SITES LOCATED NEAR MARSHES, TIDE-FLATS, IRRIGATED PASTURES, AND MARGINS OF RIVERS AND LAKES.

Occurrence No. 9 Map Index:11341

Occ Rank: Poor

Origin: Natural/Native occurrence

Presence: Presumed Extant

Trend: Unknown

Main Source: VENNARD, M. 1988 (OBS)

Quad Summary: RIO LINDA (3812164/512B)

County Summary: SACRAMENTO

SNA Summary: Ascot Road Vernal Pools

Location: DRY CREEK, 0.5 MI S OF JCT OF WEST 2ND ST AND ASCOT AVE, RIOLINDA

—Comments—

Distribution:

Ecological: HABITAT CONSISTS OF A LARGE OAK TREE SITUATED ALONG A DRY CHANNEL OF DRY CREEK.

Threat: THREATENED BY PROPOSED GOLF COURSE; NEST TREE STANDS IN THE DRIVING RANGE, AS PRESENTLY PLANNED.

General: THIS IS THE ONLY REMAINING ROOKERY SITE KNOWN IN THE NW PART OF SACRAMENTO COUNTY. BOTH GREAT EGRETS AND GREAT BLUE HERONS NEST HERE.

Owner/Manager: CITY OF SACRAMENTO

—Dates Last Seen—

Element: 1988-03-XX

Site: 1988-03-XX

Lat/Long: 38°39'46" / 121°28'02"

UTM: Zone-10 N4280263 E633360

Precision: NON-SPECIFIC

Symbol Type: POINT

Radius: 1/5 mile

Township: 09N

Range: 05E

Section: 05 Qtr NW

Meridian: M

Elevation: 30 ft

California Department of Fish and Game  
Natural Diversity Data Base

Magpie Creek: Rio Linda Quadrangle

ELANUS LEUCURUS

WHITE-TAILED KITE

Element Code: ABNKC06010

List Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: None	State: S3	

Habitat Associations

General: (NESTING) ROLLING FOOTHILLS/VALLEY MARGINS W/SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND  
Micro: OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.

Occurrence No. 54	Map Index: 26582	—Dates Last Seen—	Lat/Long: 38°39'42" / 121°24'56"	Township: 09N
Occ Rank: Unknown		Element: 1995-XX-XX	UTM: Zone-10 N4280216 E637852	Range: 05E
Origin: Natural/Native occurrence		Site: 1995-XX-XX	Precision: NON-SPECIFIC	Section: 24 Qtr W
Presence: Presumed Extant			Symbol Type: POLYGON	Meridian: M
Trend: Unknown			Area: 5.5 ac	Elevation: 50 ft
Main Source: LACY, T. 1995 (LIT)				
Quad Summary: RIO LINDA (3812164/512B)				
County Summary: SACRAMENTO				
SNA Summary:				
Location: ALONG DON JULIO CREEK, ABOUT 1.4 KM NE OF THE INTERSECTION OF MAIN AVENUE AND RALEY BOULEVARD, MCCLELLAN AIR FORCE BASE				

Comments

Distribution:  
Ecological: NEST IS IN BOXELDER ALONG DON JULIO CREEK. SURROUNDING AREA IS ANNUAL GRASSLAND.  
Threat: THREATS INCLUDE MILITARY OPERATIONS AND DEVELOPMENT.  
General: 1 NEST OBSERVED FROM FEB-JUN 1995 DURING A FAIRY SHRIMP SURVEY; NESTING SUCCESS UNKNOWN.  
Owner/Manager: DOD-MCCLELLAN AFB

Magpie Creek: Rio Linda Quadrangle

ATHENE CUNICULARIA

BURROWING OWL

Element Code: ABNSB10010

—List Status—

Federal: None  
State: None

—NDDB Element Ranks—

Global: G4  
State: S2

—Other Lists—

CDFG Status: SC

—Habitat Associations—

General: (BURROW SITES) OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.  
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 62      Map Index: 11296      —Dates Last Seen—      Lat/Long: 38°41'04" / 121°29'32"      Township: 10N  
Occ Rank: Fair      Element: 1993-07-18      UTM: Zone-10 N4282620 E631144      Range: 04E  
Origin: Natural/Native occurrence      Site: 1993-07-18      Precision: SPECIFIC      Section: 36 Qtr N  
Presence: Presumed Extant      Symbol Type: POLYGON      Meridian: M  
Trend: Increasing      Area: 7.8 ac      Elevation: 25 ft  
Main Source: VENNARD, M. 1988 (OBS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: 0.4 MILE WEST OF EAST LEVEE ROAD, ON THE SOUTH SIDE OF ELKHORN BLVD, 2 MILES WEST OF RIO LINDA.  
—Comments—  
Distribution: EXTENSIVE BURROW NETWORK, WITH AT LEAST 2 TO 3 FAMILY GROUPS OBSERVED.  
Ecological: HABITAT CONSISTS OF ARID ANNUAL GRASSLAND ON A 2-12 FOOT SLOPE (BLUFF).  
Threat: LAND IS CURRENTLY USED FOR CATTLE GRAZING, BUT DEVELOPMENT IS MOVING INTO SURROUNDING AREAS.  
General: OWLS HAVE BEEN OBSERVED AT THIS LOCATION SINCE AT LEAST 1987. IN 1993, 2 ADULTS WERE OBSERVED IN MID-MARCH.  
AND BY MID-JULY, 14 INDIVIDUALS WERE OBSERVED.  
Owner/Manager: PVT

Occurrence No. 129      Map Index: 20689      —Dates Last Seen—      Lat/Long: 38°42'20" / 121°28'48"      Township: 10N  
Occ Rank: Fair      Element: 1993-02-04      UTM: Zone-10 N4284998 E632179      Range: 05E  
Origin: Natural/Native occurrence      Site: 1993-02-04      Precision: NON-SPECIFIC      Section: 19 Qtr SW  
Presence: Presumed Extant      Symbol Type: POINT      Meridian: M  
Trend: Unknown      Radius: 2/5 mile      Elevation: 40 ft  
Main Source: KOFORD, E. 1992 (OBS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: JUST WNW OF 6TH AND "U" STREETS, RIO LINDA.  
—Comments—  
Distribution: THREE SETS OF BURROWS AT THIS SITE; ONE SET LOCATED ADJACENT TO WPRR TRACKS, ONE ADJACENT TO SOME VERNAL  
POOLS, AND ONE ADJACENT TO 6TH AND "U" STREETS.  
Ecological: HABITAT IS OPEN GRASSLAND WITH CUT SOIL BANKS.  
Threat: POSSIBLE THREAT FROM A PROPOSED ENERGY FACILITY.  
General: ONE ADULT OBSERVED ROOSTING IN A DEBRIS PILE NEAR A BURROW SITE IN 1992; TWO ADULTS OBSERVED AT A BURROW  
ADJACENT TO VERNAL POOLS IN 1993.  
Owner/Manager: PVT

California Department of Fish and Game  
Natural Diversity Data Base

Maggie Creek: Rio Linda Quadrangle

AGELAIUS TRICOLOR

TRICOLORED BLACKBIRD

Element Code: ABPBXB0020

—List Status—

Federal: None

State: None

NDDB Element Ranks

Global: G3

State: S3

Other Lists

CDFG Status: SC

Habitat Associations

General: (NESTING COLONY) HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.  
Micro: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

\* SENSITIVE \*

Occurrence No. 302

Map Index:

—Dates Last Seen—

Lat/Long: /

Township:

Occ Rank: Unknown

Element: 1993-XX-XX

UTM:

Range:

Origin: Natural/Native occurrence

Site: 1994-04-22

Precision:

Section:

Qtr

Presence: Presumed Extant

Symbol Type:

Meridian:

Trend: Unknown

Radius:

Elevation:

Main Source: MANOLIS, T. & C. BURKE 1994 (OBS)

Quad Summary: RIO LINDA (3812164/512B)

County Summary: SACRAMENTO, SUTTER

SNA Summary:

Location: \*SENSITIVE\* Location information suppressed.

Comments

Distribution: Please contact the California Natural Diversity Database, California Department of Fish and Game, for more information: (916) 324-3812.

Ecological: NESTING SUBSTRATE CONSISTS OF A BLACKBERRY HEDGE, WITH BIRDS FORAGING IN ADJACENT PASTURELANDS.

Threat:

General:

Owner/Manager:

California Department of Fish and Game  
Natural Diversity Data Base

Magpie Creek: Rio Linda Quadrangle

CLEMMYS MARMORATA

WESTERN POND TURTLE

Element Code: ARAAD02030

—List Status—

Federal: None

State: None

—NDDB Element Ranks—

Global: G4

State: S3

—Other Lists—

CDFG Status: SC

—Habitat Associations—

General: A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS & IRRIGATION DITCHES WITH AQUATIC VEGETATION.  
Micro: NEED BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT FOR EGG-LAYING.

Occurrence No. 2      Map Index: 26582      —Dates Last Seen—      Lat/Long: 38°39'42" / 121°24'56"      Township: 09N  
Occ Rank: Unknown      Element: 1995-XX-XX      UTM: Zone-10 N4280216 E637852      Range: 05E  
Origin: Natural/Native occurrence      Site: 1995-XX-XX      Precision: NON-SPECIFIC      Section: 24 Qtr 1  
Presence: Presumed Extant      Symbol Type: POLYGON      Meridian: M  
Trend: Unknown      Area: 5.5 ac      Elevation: 50 ft  
Main Source: LACY, T. 1995 (LIT)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: MCCLELLAN AFB. DON JULIO CREEK ABOUT 1.4 KM NE OF THE INTERSECTION OF MAIN AVE & RALEY BLVD.  
—Comments—  
Distribution:  
Ecological: SURROUNDING AREA IS ANNUAL GRASSLAND WITH MANY VERNAL POOLS.  
Threat: MILITARY ACTIVITIES, DEVELOPMENT.  
General: 2 TURTLES SEEN AT ONE SITE AND AN UNKNOWN NUMBER SEEN AT A NEARBY BASKING SITE DURING A FEBRUARY TO JUNE FAIR SHRIMP SURVEY.  
Owner/Manager: DOD-MCCLELLAN AFB

California Department of Fish and Game  
Natural Diversity Data Base

Magpie Creek: Rio Linda Quadrangle

THAMNOPHIS GIGAS

GIANT GARTER SNAKE

Element Code: ARADB36150

—List Status—	—NDDB Element Ranks—	—Other Lists—
Federal: Threatened	Global: G2G3	CDFG Status:
State: Threatened	State: S2S3	

—Habitat Associations—

General: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.  
Micro: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Occurrence No. 145	Map Index: 36594	—Dates Last Seen—	Lat/Long: 38°41'07" / 121°29'39"	Township: 10N
Occ Rank: Unknown		Element: 1996-09-27	UTM: Zone-10 N4282735 E630984	Range: 04E
Origin: Natural/Native occurrence		Site: 1996-09-27	Precision: SPECIFIC	Section: 36 Qtr NW
Presence: Presumed Extant			Symbol Type: POINT	Meridian: M
Trend: Unknown			Radius: 80 meters	Elevation: 15 ft
Main Source: RODDY, F. 1996 (OBS)				
Quad Summary: RIO LINDA (3812164/512B)				
County Summary: SACRAMENTO				
SNA Summary:				
Location: ELKHORN ROAD, 0.5 MILE WEST OF EAST LEVEE ROAD				
—Comments—				
Distribution:				
Ecological: SURROUNDING HABITAT CONSISTS OF RICE FIELDS TO THE SOUTH, PLOWED AGRICULTURAL FIELDS TO THE NORTH, AND RUDERAL VEGETATION ALONG THE ROADWAY.				
Threat: POSSIBLE THREAT OF URBAN DEVELOPMENT.				
General: 1 INDIVIDUAL (3 FEET IN LENGTH) WAS FOUND DOR ON ELKHORN ROAD ON 27 SEPTEMBER 1996.				
Owner/Manager: PVT, SAC COUNTY				

Magpie Creek: Rio Linda Quadrangle

NORTHERN HARDPAN VERNAL POOL

Element Code: CTT44110CA

—List Status—

Federal: None  
State: None

—NDDB Element Ranks—

Global: G3  
State: S3.1

—Other Lists—

—Habitat Associations—

General: None for this Element  
Micro: None for this Element

Occurrence No. 78      Map Index:11433      —Dates Last Seen—      Lat/Long: 38°42'32" / 121°25'15"      Township: 10N  
Occ Rank: Unknown      Element: 1983-XX-XX      UTM: Zone-10 N4285448 E637308      Range: 05E  
Origin: Natural/Native occurrence      Site: 1983-XX-XX      Precision: NON-SPECIFIC      Section: 22 Qtr W  
Presence: Presumed Extant      Symbol Type: POINT      Meridian: M  
Trend: Unknown      Radius: 1/5 mile      Elevation: 70 ft  
Main Source: HOLLAND, R. & V. DAINS 1986 (MAP)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: BETWEEN ELVERTA RD & U ST, E OF 16TH ST, W OF DRY CR, NE OF RIO LINDA.  
—Comments—  
Distribution: SPARSE VERNAL POOLS AS SEEN 1983 AERIAL PHOTOS.  
Ecological: ON SAN JOAQUIN ASSOC SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.  
Threat:  
General:  
Owner/Manager: PVT

Occurrence No. 79      Map Index:11427      —Dates Last Seen—      Lat/Long: 38°39'49" / 121°25'16"      Township: 09N  
Occ Rank: Unknown      Element: 1983-XX-XX      UTM: Zone-10 N4280432 E637361      Range: 05E  
Origin: Natural/Native occurrence      Site: 1983-XX-XX      Precision: NON-SPECIFIC      Section: 19 Qtr XX  
Presence: Presumed Extant      Symbol Type: POLYGON      Meridian: M  
Trend: Unknown      Area: 320.6 ac      Elevation: 50 ft  
Main Source: HOLLAND & DAINS 1986 (MAP)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: WEST OF MC CLELLAN AIR FORCE BASE BETWEEN MAGPIE CREEK & ASCOT AVE, N OF SACRAMENTO.  
—Comments—  
Distribution: SPARSE VERNAL POOLS AS SEEN IN 1983 AERIAL PHOTOS. FIELD CHECKED BY WYMER AND ASSOC. IN 1987.  
Ecological: ON SAN JOAQUIN ASSOC SOILS. NO RARE OR ENDANGERED PLANTS WERE FOUND DURING THE 1987 FIELD SURVEYS, HOWEVER, OVER 100 DIFFERENT SPECIES WERE FOUND AND ARE LISTED IN WYM87R02. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.  
Threat:  
General: SOME OF THESE POOLS WERE MOVED BY WYMER AND ASSOC. A NARRATION OF THE PROCESS IS FOUND IN WYM88R03, "VERNAL POOL RESTORATION PROJECT AT MCCLELLAN A.F.B."  
Owner/Manager: PVT



California Department of Fish and Game  
Natural Diversity Data Base

Magpie Creek: Rio Linda Quadrangle

NORTHERN CLAYPAN VERNAL POOL

Element Code: CTT44120CA

-----List Status-----NDDB Element Ranks-----Other Lists-----  
Federal: None Global: G1  
State: None State: S1.1

-----Habitat Associations-----  
General: None for this Element  
Micro: None for this Element

Occurrence No. 30 Map Index: 11332 ---Dates Last Seen--- Lat/Long: 38°40'04" / 121°28'15" Township: 09N  
Occ Rank: Unknown Element: 1983-04-13 UTM: Zone-10 N4280812 E633036 Range: 05E  
Origin: Natural/Native occurrence Site: 1984-04-13 Precision: NON-SPECIFIC Section: 05 Qtr NW  
Presence: Presumed Extant Symbol Type: POINT Meridian: M  
Trend: Unknown Radius: 1/5 mile Elevation: 35 ft  
Main Source: SCHONHOLTZ, R. 1984 (OBS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary: Ascot Road Vernal Pools  
Location: N OF DRY CR, S OF ASCOT AVE, JUST E OF WESTERN PACIFIC RR TRACKS, SACRAMENTO.

-----Comments-----  
Distribution:  
Ecological: VERNAL POOL COMPLEX W/SEASONAL & PERENNIAL FRESHWATER MARSH. ANNUAL GRASSLAND SURROUNDS. POOL TAXA INCL  
ERYNGIUM, DOWNINGIA, PLAGIOBOTHRYIS, JUNCUS. ON CLAY SUBSTRATE. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION,  
LACKS SPP. INFO  
Threat: MODERATELY GRAZED, EROSION THREATENING ONE POOL.  
General: AREA PROPOSED FOR REGIONAL PARK BY CITY OF SACRAMENTO PER SCHONHOLTZ.  
Owner/Manager: UNKNOWN

California Department of Fish and Game  
Natural Diversity Data Base

Maggie Creek: Rio Linda Quadrangle

BRANCHINECTA LYNCHII  
VERNAL POOL FAIRY SHRIMP  
Element Code: 1CBRA03030

—List Status—  
Federal: Threatened  
State: None

—NDDB Element Ranks—  
Global: G2G3  
State: S2S3

—Other Lists—  
CDFG Status:

—Habitat Associations—

General: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED  
Micro: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOL

Occurrence No. 3      Map Index:23049      —Dates Last Seen—      Lat/Long: 38°42'25" / 121°28'54"      Township: 10N  
Occ Rank: Fair      Element: 1993-02-11      UTM: Zone-10 N4285141 E632014      Range: 05E  
Origin: Natural/Native occurrence      Site: 1993-02-11      Precision: NON-SPECIFIC      Section: 19 Qtr  
Presence: Presumed Extant      Symbol Type: POLYGON      Meridian: M  
Trend: Unknown      Area: 8.3 ac      Elevation: 35 ft  
Main Source: YORK, R. 1993 (OBS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: 0.5 MILE WEST OF THE JUNCTION OF WEST 6TH STREET AND "U" STREET, RIO LINDA.  
—Comments—  
Distribution:  
Ecological: HABITAT CONSISTS OF TWO DISTURBED VERNAL POOLS. BURROWING OWLS ALSO FOUND AT THIS LOCATION.  
Threat: POSSIBLY THREATENED BY PROPOSED CONSTRUCTION OF AN ACCESS ROAD LEADING TO A NEW POWER PLANT.  
General: FAIRY SHRIMP IDENTIFIED BY STEPHANIE MYERS (JSA); ALTHOUGH NOT COMMON, THERE WERE TOO MANY TO COUNT.  
Owner/Manager: PVT

Occurrence No. 4      Map Index:23050      —Dates Last Seen—      Lat/Long: 38°42'48" / 121°28'57"      Township: 10N  
Occ Rank: Poor      Element: 1996-02-13      UTM: Zone-10 N4285837 E631929      Range: 05E  
Origin: Natural/Native occurrence      Site: 1996-02-13      Precision: NON-SPECIFIC      Section: 19 Qtr N  
Presence: Presumed Extant      Symbol Type: POINT      Meridian: M  
Trend: Unknown      Radius: 1/5 mile      Elevation: 35 ft  
Main Source: LEACH, S. 1996 (OBS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: EAST SIDE OF WESTERN PACIFIC RR TRACKS, SOUTH OF JUNCTION OF ELVERTA RD/SORENTO RD, 2.0 KM WEST OF ELVERTA.  
—Comments—  
Distribution: 1993: 1 DISTURBED POND ADJACENT TO RR TRACKS SAMPLED, SHRIMP ID'D BY S. MEYERS (JSA); ALTHOUGH NOT COMMON, TOO MANY TO COUNT. 1996: 3 POOLS SAMPLED BY S. LEACH; TOTAL APPROX. SIZE OF POOLS AND SWALES ARE 250 SQ. METERS.  
Ecological: HABITAT IS COMPLEX OF SEASONAL POOLS AND SWALES; SAN JOAQUIN SOIL SERIES; ASSOCIATED PLANTS: TILLAEA AQUATICA, LOLIUM MULTIFLORUM, CALLITRICHE MARGINATA, LILAEA SCILLOIDES, LYTHRUM HYSSOPIFOLIUM, MIMULUS GUTTATUS, MOUTIA FONTANA ET AL.  
Threat: THREAT: HIGH POTENTIAL FOR DEGRADATION OF WATER QUALITY; POSSIBLE HERBICIDE USE; SEDIMENTATION OF POOLS, RR ROW, ET AL.  
General: 1993: SHRIMP OBS BY S. MEYERS. 2/13/1996: >50 ADULTS OBS IN SMALL (93 SQ. METERS) ISOLATED POOL ABOUT 1000 FT S OF ELVERTA RD; 50-100 ADULTS OBS IN POOL 800 FT E OF SORENTO RD; 50-100 ADULTS OBS IN 92 SQ. METER POOL 230 FT S OF ELVERTA RD.  
Owner/Manager: PVT, UNKNOWN

Occurrence No. 90      Map Index:32510      —Dates Last Seen—      Lat/Long: 38°40'00" / 121°24'57"      Township: 09N  
Occ Rank: Excellent      Element: 1996-01-22      UTM: Zone-10 N4280763 E637829      Range: 05E  
Origin: Natural/Native occurrence      Site: 1996-01-22      Precision: SPECIFIC      Section: 24 Qtr NW  
Presence: Presumed Extant      Symbol Type: POINT      Meridian: M  
Trend: Unknown      Radius: 80 meters      Elevation: 50 ft  
Main Source: LACY, T. 1995 (OBS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: MC CLELLAN AFB; 0.25 MILE SE OF ASCOT ROAD X 20TH STREET, SACRAMENTO.  
—Comments—  
Distribution: SMALL POOL: 15-FT X 25-FT.  
Ecological: VERNAL POOL WITH ALGAE AND GRASS BOTTOM. POOL ESTIMATED TO BE 25 FEET LONG AND 15 FEET WIDE WITH A MAXIMUM DEPTH OF 10 INCHES. SURROUNDING AREA IS ANNUAL GRASSLAND. OSTRACODS, COPEPODS, AND LINDERIELLA OCCIDENTALIS ALSO PRESENT.  
Threat: EXPANSION OF BASE FACILITIES; MODIFICATION OF WATERSHED; AIRCRAFT REPAIR, LIGHT INDUSTRIAL, RESIDENT, COMMERCIAL.  
General: POOL #M95B (AKA MCC95B) MANY ADULTS OBSERVED ON 2/10 & 3/16/95, BUT NO STANDING WATER ON 3/2/95; 2 COLLECTED ON 2/10 (CAS #102856); 6 COLLECTED ON 3/16 (CAS-#102858). 100'S OBSERVED ON 22 JAN 1996 (COLLECTION-CAS #106746).  
Owner/Manager: DOD-MCCLELLAN AFB

California Department of Fish and Game  
Natural Diversity Data Base

Magpie Creek: Rio Linda Quadrangle

BRANCHINECTA LYNCHI (cont.)  
VERNAL POOL FAIRY SHRIMP  
Element Code: ICBRA03030

List Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G2G3	CDFG Status:
State: None	State: S2S3	

Occurrence No. 130      Map Index: 34789      —Dates Last Seen—      Lat/Long: 38°40'56" / 121°28'42"      Township: 10N  
Occ Rank: Unknown      Element: 1992-04-01      UTM: Zone-10 N4282411 E632349      Range: 05E  
Origin: Natural/Native occurrence      Site: 1992-04-01      Precision: SPECIFIC      Section: 31 Qtr N  
Presence: Presumed Extant      Symbol Type: POINT      Meridian: M  
Trend: Unknown      Radius: 80 meters      Elevation: 40 ft  
Main Source: KOFORD, E. 1992 (PERS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: ALONG UNION PACIFIC RR (USED TO BE WESTERN PACIFIC RR?); 0.2 MILES SOUTH OF ELKHORN BLVD, RIO LINDA.  
—Comments—  
Distribution:  
Ecological:  
Threat:  
General: KOFORD OBSERVED B. LYNCHI DURING SURVEY IN SPRING OF 1992; LINDERIELLA OCCIDENTALIS ALSO OBSERVED.  
Owner/Manager: PVT-UNION PACIFIC RR

Occurrence No. 145      Map Index: 28339      —Dates Last Seen—      Lat/Long: 38°37'56" / 121°28'10"      Township: 09N  
Occ Rank: Poor      Element: 1995-01-14      UTM: Zone-10 N4276858 E633235      Range: 05E  
Origin: Natural/Native occurrence      Site: 1995-01-14      Precision: SPECIFIC      Section: 03 Qtr SW  
Presence: Presumed Extant      Symbol Type: POLYGON      Meridian: M  
Trend: Unknown      Area: 14.6 ac      Elevation: 25 ft  
Main Source: WALKER, R. 1995 (OBS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: 200 FEET NORTH OF SILVER EAGLE ROAD BRIDGE, ADJ. TO NATOMAS MAIN DRAINAGE CANAL LEVEE ROAD; 1.1 KM SOUTH OF HWY 80.  
—Comments—  
Distribution: EAST SIDE OF LEVEE ROAD, WEST SIDE OF WESTERN PACIFIC RR TRACKS IN ROW.  
Ecological: LONG POOL (14 FEET WIDE AND 275 FEET LONG, DEPTH=0.15M) IN TIRE RUTS FROM VEHICLES; TEMP=16.5 DEGREES CELSIUS, VERY TURBID WATER; INUNDATED AREA DEVOID OF VEGETATION; SOIL IS SANDY CLAY LOAM; SITE HAS 0% SLOPE AND A FLAT ASPECT.  
Threat: MAINTENANCE ROAD FRO WESTERN PACIFIC RR, AREA IMPACTED BY SACRAMENTO AREA FLOOD CONTROL AGENCY.  
General: 2 SITES IN SAME POOL WERE SAMPLED: IN SOUTHERN SITE FEW (<50) ADULTS WERE OBSERVED, & A VOUCHER SPECIMEN WAS COLLECTED & DEPOSITED IN CAS. IN NORTHERN SITE MANY (>50) ADULTS WERE OBSERVED, & 3 VOUCHER SPECIMENS COLLECTED & DEPOSITED IN CAS.  
Owner/Manager: PVT-WESTERN PACIFIC RR

Occurrence No. 146      Map Index: 28338      —Dates Last Seen—      Lat/Long: 38°40'05" / 121°28'23"      Township: 09N  
Occ Rank: Good      Element: 1995-02-22      UTM: Zone-10 N4280841 E632837      Range: 05E  
Origin: Natural/Native occurrence      Site: 1995-02-22      Precision: SPECIFIC      Section: 05 Qtr NW  
Presence: Presumed Extant      Symbol Type: POINT      Meridian: M  
Trend: Unknown      Radius: 80 meters      Elevation: 20 ft  
Main Source: WALKER, R. 1995 (OBS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: APPROX. 1500 FEET NORTHEAST OF NATOMAS EAST MAIN DRAINAGE CANAL X DRY CREEK; 700 FEET SE OF ASCOT AVE X WEST 6TH ST.  
—Comments—  
Distribution:  
Ecological: SEASONAL POND (500 FEET LONG X 45 FEET WIDE), AVERAGE DEPTH=6 INCHES; MAX. DEPTH=20 INCHES; TEMP=21.5 DEGREES CELSIUS; TURBIDITY=98%; CONDUCTIVITY=98 MICROHOS/CM.  
Threat: CATTLE GRAZING AND CITY PLANS FOR GOLF COURSE DEVELOPMENT (HANSEN RANCH).  
General: <10 ADULTS OBSERVED IN POND, NO VOUCHER SPECIMENS TAKEN.  
Owner/Manager: CITY OF SACRAMENTO

California Department of Fish and Game  
Natural Diversity Data Base

Magpie Creek: Rio Linda Quadrangle

BRANCHINECTA LYNCHI (cont.)  
VERNAL POOL FAIRY SHRIMP  
Element Code: ICBRA03030

—List Status—  
Federal: Threatened  
State: None

—NDDB Element Ranks—  
Global: G2G3  
State: S2S3

—Other Lists—  
CDFG Status:

Occurrence No. 167      Map Index:33694      —Dates Last Seen—      Lat/Long: 38°40'41" / 121°28'43"      Township: 10N  
Occ Rank: Unknown      Element: 1992-04-01      UTM: Zone-10 N4281952 E632332      Range: 05E  
Origin: Natural/Native occurrence      Site: 1992-04-01      Precision: NON-SPECIFIC      Section: 31 Qtr X  
Presence: Presumed Extant      Symbol Type: POLYGON      Meridian: M  
Trend: Unknown      Area: 300.5 ac      Elevation: 30 ft  
Main Source: SUGNET & ASSOC. 1993 (PERS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: SOUTH OF ELKHORN BLVD, WEST OF WEST 6TH ST, EAST OF NATOMAS EAST MAIN DRAINAGE CANAL. SOUTHWEST OF RIO LINDA.  
—Comments—  
Distribution: LOCATED SOMEWHERE IN SECTION 31.  
Ecological: MANMADE ROADSIDE DITCH.  
Threat:  
General: UNKNOWN NUMBER OF B. LYNCHI OBSERVED IN THE ONE FEATURE INSPECTED. SUGNET RECORD #82. NO LEPIDURUS PACKARDI OBSERVED.  
Owner/Manager: UNKNOWN

Occurrence No. 182      Map Index:36116      —Dates Last Seen—      Lat/Long: 38°42'41" / 121°28'36"      Township: 10N  
Occ Rank: Good      Element: 1997-01-22      UTM: Zone-10 N4285630 E632459      Range: 05E  
Origin: Natural/Native occurrence      Site: 1997-01-22      Precision: SPECIFIC      Section: 19 Qtr NW  
Presence: Presumed Extant      Symbol Type: POINT      Meridian: M  
Trend: Unknown      Radius: 80 meters      Elevation: 31 ft  
Main Source: LEACH, S. 1997 (OBS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: 0.25 MILE SOUTH OF ELVERTA ROAD AND 0.4 MILE EAST OF SORENTO ROAD, WEST OF ELVERTA  
—Comments—  
Distribution:  
Ecological: HABITAT CONSISTS OF A VERNAL POOL (12-14 INCHES DEEP); ASSOCIATED PLANT SPECIES INCLUDE CALLITRICHE MARGINATA, ELEOCHARIS MACROSTACHYA, LASTHENIA GLABRATA, LILEA SCILLOIDES, LIMNANTHES ALBA, AND OTHERS. LINDERIELLA OCCIDENTALIS ALSO PRESENT  
Threat: POSSIBLY THREATENED BY CONTAMINATED RUNOFF FROM A CEMENT MIXING FACILITY SE OF THE SITE.  
General: 30 ADULTS OBSERVED ON 22 JAN 1997.  
Owner/Manager: WESTERN AREA POWER ADMIN

California Department of Fish and Game  
Natural Diversity Data Base

Maggie Creek: Rio Linda Quadrangle

LINDERIELLA OCCIDENTALIS  
CALIFORNIA LINDERIELLA  
Element Code: ICBRA06010

-----List Status-----NDDB Element Ranks-----Other Lists-----  
Federal: NoneGlobal: G2G3CDFG Status:  
State: NoneState: S2S3

-----Habitat Associations-----

General: SEASONAL POOLS IN UNFLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.  
Micro: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Occurrence No. 57Map Index:32510-----Dates Last Seen-----Lat/Long: 38°40'00" / 121°24'57"Township: 09N  
Occ Rank: ExcellentElement: 1995-02-10UTM: Zone-10 N4280763 E637829Range: 05E  
Origin: Natural/Native occurrenceSite: 1995-03-16Precision: SPECIFICSection: 24 Qtr NW  
Presence: Presumed ExtantSymbol Type: POINTMeridian: M  
Trend: UnknownRadius: 80 metersElevation: 50 ft  
Main Source: LACY, T. 1995 (LIT)  
Quad Summary: RIO LINDA (3812164/512E)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: MC CLELLAN AFB; 0.4 KM SE ASCOT ROAD X 20TH STREET.  
-----Comments-----  
Distribution:  
Ecological: VERNAL POOL WITH ALGAE AND GRASS BOTTOM. ESTIMATED TO BE 25 FEET LONG AND 15 FEET WIDE WITH A MAXIMUM DEPTH OF 10 INCHES. SURROUNDING AREA IS ANNUAL GRASSLAND. OSTRACODS AND COPEPODS ALSO FOUND IN THE POOLS.  
Threat: EXPANSION OF BASE FACILITIES; MODIFICATION OF WATERSHED; AIRCRAFT REPAIR; LIGHT INDUSTRIAL; RESIDENTIAL; COMMERCIAL.  
General: POOL #M95B (AKA MCC95B): LINDERIELLA OCCIDENTALIS PRESENT ON 2/10/95; B. LYNCHI ALSO PRESENT; NO STANDING WATER OBSERVED ON 3/2/1995. POOL REFILLED BUT NO LINDERIELLA FOUND ON 3/16/95.  
Owner/Manager: DOD-MCCLELLAN AFB

Occurrence No. 58Map Index:32509-----Dates Last Seen-----Lat/Long: 38°40'04" / 121°24'56"Township: 09N  
Occ Rank: UnknownElement: 1995-03-16UTM: Zone-10 N4280897 E637840Range: 05E  
Origin: Natural/Native occurrenceSite: 1995-03-16Precision: SPECIFICSection: 03 Qtr NW  
Presence: Presumed ExtantSymbol Type: POINTMeridian: M  
Trend: UnknownRadius: 80 metersElevation: 55 ft  
Main Source: LACY, T. 1995 (LIT)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: MCCLELLAN AFB; 0.3 KM ESE OF JUNCTION OF ASCOT ROAD AND 20TH STREET.  
-----Comments-----  
Distribution:  
Ecological: VERNAL POOL WITH MUD BOTTOM. ESTIMATED TO BE 75 FEET LONG AND 45 FEET WIDE WITH A MAXIMUM DEPTH OF 2 INCHES. SURROUNDING AREA IS ANNUAL GRASSLAND. OSTRACODS AND UNIDENTIFIED INSECT LARVAE WERE ALSO PRESENT.  
Threat: DEVELOPMENT; MILITARY USES; COMMERCIAL; RESIDENTIAL; LIGHT INDUSTRIAL.  
General: POOL #111-LINDERIELLA OCCIDENTALIS OBSERVED ON 2/10 & 3/16/1995. NONE OBSERVED ON 3/2/95.  
Owner/Manager: DOD-MCCLELLAN AFB

Occurrence No. 59Map Index:32511-----Dates Last Seen-----Lat/Long: 38°39'55" / 121°25'21"Township: 09N  
Occ Rank: UnknownElement: 1995-02-10UTM: Zone-10 N4280622 E637234Range: 05E  
Origin: Natural/Native occurrenceSite: 1995-03-16Precision: SPECIFICSection: 03 Qtr NE  
Presence: Presumed ExtantSymbol Type: POINTMeridian: M  
Trend: UnknownRadius: 80 metersElevation: 50 ft  
Main Source: LACY, T. 1995 (LIT)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: MC CLELLAN AFB; CREEKS AREA; 0.5 KM SW OF ASCOT ROAD X 20TH STREET.  
-----Comments-----  
Distribution:  
Ecological: 2 POOLS W/ALGAE & GRASS BOTTOMS WITHIN ANNUAL GRASSLAND. POOL M076 IS ABOUT 200 FT X 60 FT W/ 10 IN MAX DEPTH. POOL M052 IS ABOUT 50 FT X 30 FT W/ 8 IN MAX DEPTH. OSTRACODS, COPEPODS, INSECT LARVAE, MOSQUITO LARVAE & FLATWORMS ALSO FOUND.  
Threat: DEVELOPMENT; MILITARY USES; COMMERCIAL AND LIGHT INDUSTRIAL; RESIDENTIAL.  
General: LINDERIELLA OBSERVED IN BOTH POOLS ON 2/10/95. NONE FOUND IN EITHER POOL ON 3/2 OR 3/16/95. HYLTA TADPOLES OBSERVED ON 3/2/1995 IN POOL M076.  
Owner/Manager: DOD-MCCLELLAN AFB

Magpie Creek: Rio Linda Quadrangle

LINDERIELLA OCCIDENTALIS (cont.)

CALIFORNIA LINDERIELLA

Element Code: ICBRA06010

List Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2G3	CDFG Status:
State: None	State: S2S3	

Occurrence No. 60      Map Index: 32512      —Dates Last Seen—      Lat/Long: 38°39'50" / 121°24'58"      Township: 09N  
 Occ Rank: Unknown      Element: 1995-02-10      UTM: Zone-10 N4280465 E637816      Range: 05E  
 Origin: Natural/Native occurrence      Site: 1995-03-16      Precision: SPECIFIC      Section: 24 Qtr  
 Presence: Presumed Extant      Symbol Type: POINT      Meridian: M  
 Trend: Unknown      Radius: 80 meters      Elevation: 55 ft  
 Main Source: LACY, T. 1995 (LIT)  
 Quad Summary: RIO LINDA (3812164/512B)  
 County Summary: SACRAMENTO  
 SNA Summary:  
 Location: MC CLELLAN AFB; CREEKS AREA; 0.6 KM SSE OF ASCOT ROAD X 20TH STREET.  
 —Comments—  
 Distribution:  
 Ecological: VERNAL POOL WITH GRASS BOTTOM IN ANNUAL GRASSLAND. POOL ESTIMATED TO BE 300 FEET LONG & 150 FEET WIDE WITH MAXIMUM DEPTH OF 24 INCHES. COPEPODS, OSTRACODS, FLATWORMS AND UNIDENTIFIED INSECT LARVAE ALSO FOUND.  
 Threat: DEVELOPMENT; MILITARY USES; COMMERCIAL AND LIGHT INDUSTRIAL; RESIDENTIAL.  
 General: POOL M131: LINDERIELLA OBSERVED ON 2/10/1995 BUT NOT ON 3/2 OR 3/16/95. TADPOLES PRESENT ON 3/16/1995.  
 Owner/Manager: DOD-MCCLELLAN AFB

Occurrence No. 61      Map Index: 32508      —Dates Last Seen—      Lat/Long: 38°39'56" / 121°25'05"      Township: 09N  
 Occ Rank: Unknown      Element: 1995-03-16      UTM: Zone-10 N4280631 E637629      Range: 05E  
 Origin: Natural/Native occurrence      Site: 1995-03-16      Precision: NON-SPECIFIC      Section: 24 Qtr  
 Presence: Presumed Extant      Symbol Type: POLYGON      Meridian: M  
 Trend: Unknown      Area: 4.9 ac      Elevation: 50 ft  
 Main Source: LACY, T. 1995 (LIT)  
 Quad Summary: RIO LINDA (3812164/512B)  
 County Summary: SACRAMENTO  
 SNA Summary:  
 Location: MC CLELLAN AFB; CREEKS AREA; 0.5 KM S OF ASCOT ROAD X 20TH STREET.  
 —Comments—  
 Distribution:  
 Ecological: 2 VERNAL POOLS WITH ALGAE & GRASS BOTTOMS IN ANNUAL GRASSLAND. POOLS ARE 200 X 30 FT & 400 X 50 FT. WITH MAX DEPTHS OF 14 & 40 INCHES. OSTRACODS, COPEPODS, CLAM SHRIMP, & UNIDENTIFIED INSECT LARVAE ALSO FOUND IN THE POOLS.  
 Threat: DEVELOPMENT; MILITARY USES; COMMERCIAL AND LIGHT INDUSTRIAL; RESIDENTIAL.  
 General: POOL M073: L. OCCIDENTALIS OBSERVED ON 2/9 & 3/16/95 BUT NOT 3/2/95. HYLA TADPOLES OBSERVED ON ALL 3 SURVEYS DATES. POOL M95A (AKA MCC95A): LINDERIELLA OBSERVED ON ALL 3 SURVEY DATES, HYLA TADPOLES OBSERVED ON 3/2/1995.  
 Owner/Manager: DOD-MCCLELLAN AFB

Occurrence No. 62      Map Index: 32513      —Dates Last Seen—      Lat/Long: 38°39'34" / 121°25'16"      Township: 09N  
 Occ Rank: Unknown      Element: 1995-03-16      UTM: Zone-10 N4279946 E637390      Range: 05E  
 Origin: Natural/Native occurrence      Site: 1995-03-16      Precision: NON-SPECIFIC      Section: 19 Qtr SE  
 Presence: Presumed Extant      Symbol Type: POLYGON      Meridian: M  
 Trend: Unknown      Area: 4.0 ac      Elevation: 50 ft  
 Main Source: LACY, T. 1995 (LIT)  
 Quad Summary: RIO LINDA (3812164/512B)  
 County Summary: SACRAMENTO  
 SNA Summary:  
 Location: MC CLELLAN AFB; CREEKS AREA; 0.8 KM NE OF MAIN AVENUE AND RALEY BLVD.  
 —Comments—  
 Distribution:  
 Ecological: 3 VERNAL POOLS WITH ALGAE OR GRASS BOTTOMS IN ANNUAL GRASSLAND. POOL SIZES: 25 FT X 10 FT, 50 X 15 FT & 150 X 50 FT WITH MAX DEPTHS OF 4, 6 & 12 INCHES. OSTRACODS, COPEPODS, FLATWORMS, BEETLES, & INSECT LARVAE ALSO FOUND IN POOLS.  
 Threat: DEVELOPMENT; MILITARY USES; COMMERCIAL AND LIGHT INDUSTRIAL; RESIDENTIAL.  
 General: POOL M025: LINDERIELLA OBSERVED ON 2/10 & 3/2/95, BUT NOT ON 3/16. TOAD TADPOLES OBSERVED ON 3/2; POOL M148: LINDERIELLA OBSERVED ON 2/10, 3/2, & 3/16/95. POOL M157: LINDERIELLA OBSERVED 2/10 BUT NOT 3/2 OR 3/16/95.  
 Owner/Manager: DOD-MCCLELLAN AFB

California Department of Fish and Game  
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Magpie Creek: Rio Linda Quadrangle

LINDERIELLA OCCIDENTALIS (cont.)

CALIFORNIA LINDERIELLA

Element Code: ICBRA06010

-----List Status-----NDDB Element Ranks-----Other Lists-----  
Federal: None Global: G2G3 CDFG Status:  
State: None State: S2S3

Occurrence No. 72 Map Index:26042 ---Dates Last Seen--- Lat/Long: 38°41'59" / 121°29'12" Township: 10N  
Occ Rank: Fair Element: 1993-02-12 UTM: Zone-10 N4284334 E631594 Range: 04E  
Origin: Natural/Native occurrence Site: 1993-02-12 Precision: SPECIFIC Section: 25 Qtr NE  
Presence: Presumed Extant Symbol Type: POINT Meridian: M  
Trend: Unknown Radius: 80 meters Elevation: 30 ft  
Main Source: LEACH, S. 1993 (OBS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: 600 FEET WEST OF EAST LEVEE ROAD; IMMEDIATELY SOUTH OF 2 TRANSMISSION-LINE TOWERS; 1.0 MI N OF ELKHORN BLVD.  
-----Comments-----  
Distribution:  
Ecological: NORTHERN HARDPAN VERNAL POOL; DOMINANT PLANTS: PLAGIOBOTHRYIS STIPITATUS VAR. MIRCANTHUS; P. GRENEI;  
PSILOCARPHUS OREGANUS; P. BREVISSIMUS; GRATIOLA EBRACTEATA; LYTHRUM HYSSOPIFOLIA; POLYGONUM AVICULARE AND  
DOWNINGIA PUSILLA.  
Threat: ADJACENT LANDOWNERS WANT LEVEL LAND FOR AGRICULTURE AND SELL SURFACE MATERIAL FOR SACRAMENTO METRO AIRPORT  
DEVELOPMENT.  
General: >500 ADULTS OBSERVED, 1 COLLECTED FOR PERSONAL COLLECTION.  
Owner/Manager: PVT

Occurrence No. 73 Map Index:26043 ---Dates Last Seen--- Lat/Long: 38°42'22" / 121°29'07" Township: 10N  
Occ Rank: Fair Element: 1993-02-12 UTM: Zone-10 N4285042 E631699 Range: 04E  
Origin: Natural/Native occurrence Site: 1993-02-12 Precision: SPECIFIC Section: 24 Qtr SE  
Presence: Presumed Extant Symbol Type: POINT Meridian: M  
Trend: Unknown Radius: 80 meters Elevation: 28 ft  
Main Source: LEACH, S. 1993 (OBS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: ON SOUTH SIDE OF GRAVEL ROAD; 220 FT W OF EAST LEVEE ROAD; 0.6 MI S OF ELVERTA ROAD X EAST LEVEE ROAD.  
-----Comments-----  
Distribution:  
Ecological: NORTHERN HARDPAN VERNAL POOL ON SAN JOAQUIN SERIES SOIL; DOMINANT PLANTS: PLAGIOBOTHRYIS, ERYNGIUM, GRATIOLA,  
LASTHERIA, RANUNCULUS, AND LIMNANTHUS. WATER WAS 6-10 INCHES DEEP IN FEBRUARY 1993. SITE CONTAINED WATER UNTIL  
LATE APRIL 1993.  
Threat: FARMING ON SITE; POSSIBILITY THAT OWNER WILL GRADE SITE TO FACILITATE IRRIGATION FOR GROWING MORE INTENSIVE  
CROPS (HAY).  
General: >500 ADULTS AND JUVENILES OBSERVED; 1 ADULT COLLECTED FOR PERSONAL COLLECTION; THIS POOL HAD MOST DIVERSE  
COMPOSITION OF ALL POOLS SURVEYED ALONG EAST LEVEE ROAD; RARE PLANT-DOWNING PUSILLA OBSERVED.  
Owner/Manager: PVT

Occurrence No. 74 Map Index:32524 ---Dates Last Seen--- Lat/Long: 38°41'06" / 121°29'12" Township: 10N  
Occ Rank: Fair Element: 1993-02-12 UTM: Zone-10 N4282686 E631622 Range: 04E  
Origin: Natural/Native occurrence Site: 1993-02-12 Precision: SPECIFIC Section: 36 Qtr NE  
Presence: Presumed Extant Symbol Type: POINT Meridian: M  
Trend: Unknown Radius: 80 meters Elevation: 20 ft  
Main Source: LEACH, S. 1993 (OBS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: 700 FEET WEST OF EAST LEVEE ROAD X ELKHORN BLVD, ON SOUTH SIDE OF ELKHORN BLVD.  
-----Comments-----  
Distribution:  
Ecological: HEAVILY GRAZED NORTHERN HARDPAN VERNAL POOL; SOIL IS MAPPED AS SAN JOAQUIN SERIES WITH HARDPAN UNDERNEATH;  
HYDROLOGY IS CONTROLLED BY ~10 ACRE DRAINAGE AREA; PLANTS: RANUNCULUS, PHYLA, LIAEA, AND PLAGIOBOTHRYIS.  
Threat: GRAZING; POTENTIAL WIDENING OF ELKHORN BLVD OR REMOVAL OF SOIL FOR FILL OR AGRICULTURAL DEVELOPMENT.  
General: >200 ADULTS OBSERVED; 1 COLLECTED FOR PERSONAL COLLECTION.  
Owner/Manager: PVT

California Department of Fish and Game  
Natural Diversity Data Base

Magpie Creek: Rio Linda Quadrangle

LINDERIELLA OCCIDENTALIS (cont.)

CALIFORNIA LINDERIELLA

Element Code: ICBRA06010

—List Status—

Federal: None

State: None

—NDDB Element Ranks—

Global: G2G3

State: S2S3

—Other Lists—

CDFG Status:

Occurrence No. 75      Map Index:32525      —Dates Last Seen—      Lat/Long: 38°40'46" / 121°29'05"      Township: 10N  
Occ Rank: Fair      Element: 1993-02-12      UTM: Zone-10 N4282073 E631806      Range: 04E  
Origin: Natural/Native occurrence      Site: 1993-02-12      Precision: SPECIFIC      Section: 36 Qtr N  
Presence: Presumed Extant      Symbol Type: POINT      Meridian: M  
Trend: Unknown      Radius: 80 meters      Elevation: 35 ft  
Main Source: LEACH, S. 1993 (OBS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: TOE OF FILL ON WEST SIDE OF EAST LEVEE ROAD; 0.7 KM S OF ELKHORN BLVD.  
—Comments—  
Distribution:  
Ecological: SEASONALLY INUNDATED DEPRESSION NEXT TO FLOOD CONTROL LEVEE; DOMINATED BY FACULTATIVE UPLAND GRASSES AND HERBS; SOIL MAPPED AS SAN JOAQUIN SERIES UNDERLAIN BY CARBONATE-CEMENTED HARDPAN; HYDROLOGY MAY BE DUE TO FILL FOR EAST LEVEE.  
Threat: ILLEGAL DUMPING; FUTURE EXPANSION OF EAST LEVEE.  
General: >500 ADULTS AND JUVENILES OBSERVED; 1 ADULT COLLECTED FOR PERSONAL COLLECTION; AGE STRUCTURE 90% ADULTS AND 10% JUVENILES.  
Owner/Manager: PVT

Occurrence No. 122      Map Index:34789      —Dates Last Seen—      Lat/Long: 38°40'56" / 121°28'42"      Township: 10N  
Occ Rank: Unknown      Element: 1992-04-01      UTM: Zone-10 N4282411 E632349      Range: 05E  
Origin: Natural/Native occurrence      Site: 1992-04-01      Precision: SPECIFIC      Section: 31 Qtr N  
Presence: Presumed Extant      Symbol Type: POINT      Meridian: M  
Trend: Unknown      Radius: 80 meters      Elevation: 40 ft  
Main Source: KOFORD, E. 1992 (PERS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: ALONG UNION PACIFIC RR (USED TO WESTERN PACIFIC RR?); 0.2 MILES SOUTH OF ELKHORN BLVD, RIO LINDA.  
—Comments—  
Distribution:  
Ecological:  
Threat:  
General: KOFORD OBSERVED LINDERIELLAS DURING SURVEY IN SPRING OF 1992; BRANCHINECTA LYNCHI ALSO OBSERVED.  
Owner/Manager: PVT-UNION PACIFIC RR

Occurrence No. 123      Map Index:34790      —Dates Last Seen—      Lat/Long: 38°42'53" / 121°29'04"      Township: 10N  
Occ Rank: Unknown      Element: 1992-04-01      UTM: Zone-10 N4285999 E631755      Range: 04E  
Origin: Natural/Native occurrence      Site: 1992-04-01      Precision: NON-SPECIFIC      Section: 13 Qtr SE  
Presence: Presumed Extant      Symbol Type: POINT      Meridian: M  
Trend: Unknown      Radius: 1/5 mile      Elevation: 35 ft  
Main Source: KOFORD, E. 1992 (PERS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: CORNER OF ELVERTA ROAD X UNION PACIFIC RR (USED TO BE WESTERN PACIFIC RR?) AT EAST MAIN DRAINAGE CANAL, RIO LINDA.  
—Comments—  
Distribution:  
Ecological:  
Threat:  
General: KOFORD OBSERVED LINDERIELLA DURING SURVEY IN SPRING OF 1992.  
Owner/Manager: PVT-UNION PACIFIC RR



California Department of Fish and Game  
Natural Diversity Data Base

Magpie Creek: Rio Linda Quadrangle

**LEPIDURUS PACKARDI**

VERNAL POOL TADPOLE SHRIMP  
Element Code: ICBRA10010

List Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G2G3	CDFG Status:
State: None	State: S2S3	

Habitat Associations

General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.

Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Occurrence No. 147	Map Index: 11427	—Dates Last Seen—	Lat/Long: 38°39'49" / 121°25'16"	Township: 09N
Occ Rank: Fair		Element: 1998-07-10	UTM: Zone-10 N4280432 E637361	Range: 05E
Origin: Natural/Native occurrence		Site: 1998-07-10	Precision: NON-SPECIFIC	Section: 19 Qtr XX
Presence: Presumed Extant			Symbol Type: POLYGON	Meridian: M
Trend: Unknown			Area: 320.6 ac	Elevation: 50 ft
Main Source: WALKER, R. & B. HELM 1998 (OBS)				
Quad Summary: RIO LINDA (3812164/512B)				
County Summary: SACRAMENTO				
SNA Summary:				
Location: WEST OF MCCLELLAN AIR FORCE BASE BETWEEN MAGPIE CREEK AND ASCOT AVE, DEL PASO, NORTH OF SACRAMENTO.				
Comments				
Distribution: SEASONAL WETLANDS, INUNDATED APPROXIMATELY >30 DAYS DURING WINTER 1998. LOCATION GIVEN ONLY AS T9N, R5E, SEC 19. SNAPPED TO EXISTING MAPPED VERNAL POOLS.				
Ecological: SURROUNDING LAND USE: AGRICULTURE AND FALLOW FIELDS				
Threat: DISCING, DEVELOPMENT				
General: 10 CYSTS WERE FOUND IN THE SURVEYS IN JUNE AND JULY, 1998.				
Owner/Manager: UNKNOWN				

Magpie Creek: Rio Linda Quadrangle

<b>DOWNINGIA PUSILLA</b> <b>DWARF DOWNINGIA</b> Element Code: PDCAM060C0	List Status Federal: None State: None	NDDB Element Ranks Global: G3 State: S3.1	Other Lists CNPS List: 2 R-E-D Code: 1-2-1
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Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.  
 Micro: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-485M.

Occurrence No. 32      Map Index:26044      —Dates Last Seen—      Lat/Long: 38°42'30" / 121°28'32"      Township: 10N  
 Occ Rank: Fair      Element: 1994-04-04      UTM: Zone-10 N4285302 E632563      Range: 05E  
 Origin: Natural/Native occurrence      Site: 1994-04-04      Precision: SPECIFIC      Section: 19 Qtr  
 Presence: Presumed Extant      Symbol Type: POINT      Meridian: M  
 Trend: Unknown      Radius: 80 meters      Elevation: 35 ft  
 Main Source: YORK, R. 1994 (OBS)  
 Quad Summary: RIO LINDA (3812164/512B)  
 County Summary: SACRAMENTO  
 SNA Summary:  
 Location: ABOUT 800' DUE SOUTH OF THE WEST END OF DELANO ROAD; BETWEEN RIO LINDA AND ELVERTA.  
 Comments:  
 Distribution: DELANO ROAD IS JUST SOUTH OF ELVERTA ROAD AND NORTH OF "U" STREET.  
 Ecological: GRASSLAND WITH SEASONAL WETLANDS AND VERNAL POOLS. ASSOCIATED WITH RANUNCULUS BONARIENSIS VAR. TRISEPALUS AND PLAGIOBOTHRYIS STIPITATUS VAR. MICRANTHUS.  
 Threat:  
 General: 100+ PLANTS OBSERVED IN 1994. SITE IS NEAR A MICROWAVE TOWER AND A DIRT PARKING AREA. PLANNED ACCESS ROADS NEARBY WILL AVOID THE SITE. MAPPED AS SAME SITE AS 1951 COLLECTION BY A. CARTER (#3015 CAS, JEPS, UC) AT KEITHLY RANCH, RIO LINDA.  
 Owner/Manager: PVT

Occurrence No. 57      Map Index:26045      —Dates Last Seen—      Lat/Long: 38°42'42" / 121°25'00"      Township: 10N  
 Occ Rank: None      Element: 1991-05-26      UTM: Zone-10 N4285761 E637664      Range: 05E  
 Origin: Natural/Native occurrence      Site: 1997-06-18      Precision: SPECIFIC      Section: 22 Qtr NE  
 Presence: Extirpated      Symbol Type: POINT      Meridian: M  
 Trend: Unknown      Radius: 80 meters      Elevation: 75 ft  
 Main Source: DAINS, V. 1991 (OBS)  
 Quad Summary: RIO LINDA (3812164/512B)  
 County Summary: SACRAMENTO  
 SNA Summary:  
 Location: 0.2 MILES SOUTH OF ELVERTA ROAD AND 0.6 MILE EAST OF 16TH STREET, RIO LINDA.  
 Comments:  
 Distribution: LOCATED ABOUT 0.5 MILE SOUTHWEST OF GIBSON RANCH COUNTY PARK, NORTH OF DRY CREEK.  
 Ecological: GROWING ON BORDER OF A CREATED PONDED DEPRESSION IN ASSOCIATION WITH GRATIOLA EBRACTEATA, DOWNINGIA ORNATISSIMA, AND ELEOCHARIS MACROSTACHYA. THIS IS NOT A TYPICAL VERNAL POOL BUT A SEMI-PERMANANT MARSH WITH WILLOWS AND TULE.  
 Threat: DEVELOPMENT IS PLANNED FOR THIS SITE.  
 General: 50 PLANTS OBSERVED IN 1991. WETLAND MITIGATION FOR THE PROPOSED DEVELOPMENT COULD INCLUDE RETENTION OF THIS POPULATION. SITE A SUBDIVISION IN 1997; FORMER POP SITE IS NOW NEAR E END OF RUSHING RIVER CT OFF OF CHERRY BROOK DR.  
 Owner/Manager: PVT

Occurrence No. 58      Map Index:26042      —Dates Last Seen—      Lat/Long: 38°41'59" / 121°29'12"      Township: 10N  
 Occ Rank: Fair      Element: 1993-04-22      UTM: Zone-10 N4284334 E631594      Range: 04E  
 Origin: Natural/Native occurrence      Site: 1997-06-18      Precision: SPECIFIC      Section: 25 Qtr NE  
 Presence: Presumed Extant      Symbol Type: POINT      Meridian: M  
 Trend: Unknown      Radius: 80 meters      Elevation: 30 ft  
 Main Source: LEACH, S. 1993 (OBS)  
 Quad Summary: RIO LINDA (3812164/512B)  
 County Summary: SACRAMENTO  
 SNA Summary:  
 Location: UNDER TRANSMISSION LINE WEST OF EAST LEVEE ROAD AND 1 MILE NORTH OF ELKHORN BLVD, RIO LINDA.  
 Comments:  
 Distribution: APPROX 600 FEET WEST OF EAST LEVEE ROAD IMMEDIATELY SOUTH OF TWIN TRANSMISSION LINE TOWERS. WITHIN THE NE 1/4 OF THE NE 1/4 OF SECTION 25.  
 Ecological: NORTHERN HARDPAN VERNAL POOL DOMINATED BY PLAGIOBOTHRYIS STIPITATUS VAR. MICRANTHUS AND HEMIZONIA. CALIFORNIA LINDERIELLA (LINDERIELLA OCCIDENTALIS) HAS ALSO BEEN OBSERVED IN THIS POOL.  
 Threat: MAY HAVE BEEN DISKED IN THE PAST; NO PRESENT DISTURBANCES.  
 General: 50 PLANTS OBSERVED IN 1993. POTENTIAL DISTURBANCE TO SITE IF LANDOWNER SELLS TOPSOIL AND LEVELS THE AREA FOR AGRICULTURE AS NEIGHBORING LANDOWNERS HAVE ALREADY DONE. HABITAT INTACT IN 1997, BUT NO PLANTS SEEN (TOO LATE).  
 Owner/Manager: PVT

Magpie Creek: Rio Linda Quadrangle

DOWNINGIA PUSILLA (cont.)

DWARF DOWNINGIA

Element Code: PDCAM060C0

-----List Status-----

Federal: None

State: None

-----NDDB Element Ranks-----

Global: G3

State: S3.1

-----Other Lists-----

CNPS List: 2

R-E-D Code: 1-2-1

Occurrence No. 59      Map Index: 26043      ---Dates Last Seen---      Lat/Long: 38°42'22" / 121°29'07"      Township: 10N  
Occ Rank: Good      Element: 1993-05-12      UTM: Zone-10 N4285042 E631699      Range: 04E  
Origin: Natural/Native occurrence      Site: 1997-06-18      Precision: SPECIFIC      Section: 24 Qtr SE  
Presence: Presumed Extant      Symbol Type: POINT      Meridian: M  
Trend: Unknown      Radius: 80 meters      Elevation: 28 ft  
Main Source: LEACH, S. 1993 (OBS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: ABOUT 0.6 AIR MILE SOUTH OF ELVERTA ROAD JUST WEST OF EAST LEVEE ROAD, WEST OF RIO LINDA.  
Comments:  
Distribution: VERNAL POOL ON SOUTH SIDE OF GRAVEL ACCESS ROAD TO PRIVATE PROPERTY. WITHIN THE NE 1/4 OF THE SE 1/4 OF SECTION 24.  
Ecological: NORTHERN HARDPAN VERNAL POOL ON SAN JOAQUIN SOILS. ASSOCIATED WITH PLAGIOBOTHRYS STIPITATUS VAR. MICRANTHUS, ERYNGIUM VASEYI, LASTHENIA GLABERRIMA, RANUNCULUS BONARIENSIS VAR. TRISEPALUS, AND LIMNANTHES DOUGLASII.  
Threat: AGRICULTURE; SITE IS USED FOR A MIXED SPECIES FORAGE CROP (HAY).  
General: OVER 150 PLANTS IN 1993. OWNER HAS INDICATED THAT HE PLANS TO LEVEL THE SITE AND SELL SURFACE MATERIAL TO SAC METRO AIRPORT FOR ON-GOING DEVELOPMENT. CA LINDERIELLA ALSO HERE. NO PLANTS SEEN IN 1997 (TOO LATE), BUT HABITAT WAS INTACT.  
Owner/Manager: PVT

California Department of Fish and Game  
Natural Diversity Data Base

Magpie Creek: Rio Linda Quadrangle

LEGENERE LIMOSA

LEGENERE

Element Code: PDCAM0C010

—List Status—	—NDDB Element Ranks—	—Other Lists—
Federal: None	Global: G2	CNPS List: 1B
State: None	State: S2.2	R-E-D Code: 2-3

—Habitat Associations—

General: VERNAL POOLS. MANY HISTORICAL OCCURRENCES ARE EXTIRPATED.

Micro: IN BEDS OF VERNAL POOLS. 1-880M.

Occurrence No. 32      Map Index: 30202      —Dates Last Seen—      Lat/Long: 38°42'40" / 121°24'53"      Township: 10N  
Occ Rank: None      Element: 1991-05-26      UTM: Zone-10 N4285699 E637847      Range: 05E  
Origin: Natural/Native occurrence      Site: 1997-06-18      Precision: SPECIFIC      Section: 22 C  
Presence: Extirpated      Symbol Type: POINT      Meridian: M  
Trend: Unknown      Radius: 80 meters      Elevation: 75 f  
Main Source: DAINS, V. 1991 (OBS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: SOUTH OF ELVERTA ROAD AND 0.5 MILE SOUTHWEST OF GIBSON RANCH, RIO LINDA.  
Comments:  
Distribution: MAPPED IN SEASONAL POND 0.2 MILE SOUTH OF ELVERTA ROAD AND 0.75 MILE EAST OF 16TH STREET. NEAR THE CENTER OF THE NE 1/4 OF SECTION 22.  
Ecological: ARTIFICIAL POND EXCAVATED WITHIN A VERNAL POOL LANDSCAPE. ASSOCIATED WITH ELEOCHARIS MACROSTACHYA AND LASTHENIA GLABERRIMA IN ADDITION TO MANY WEEDY SPECIES. LARGELY OPEN GROUND.  
Threat: DEVELOPMENT IS PLANNED FOR THIS SITE.  
General: 150 PLANTS SEEN IN 1991. WETLAND MITIGATION FOR THIS PROPERTY COULD INCLUDE THIS POPULATION. SITE WAS A SUBDIVISION IN 1997; FORMER POPULATION WAS UNDER INTERSECTION OF RANCH RIVER DR AND COLONNADE WAY.  
Owner/Manager: PVT

Occurrence No. 33      Map Index: 30203      —Dates Last Seen—      Lat/Long: 38°40'04" / 121°26'39"      Township: 09N  
Occ Rank: Fair      Element: 1991-05-11      UTM: Zone-10 N4280850 E635351      Range: 05E  
Origin: Natural/Native occurrence      Site: 1997-06-18      Precision: SPECIFIC      Section: 10 Q  
Presence: Presumed Extant      Symbol Type: POLYGON      Meridian: M  
Trend: Unknown      Area: 5.8 ac      Elevation: 35 ft  
Main Source: WITHAM, C. 1991 (OBS)  
Quad Summary: RIO LINDA (3812164/512B)  
County Summary: SACRAMENTO  
SNA Summary:  
Location: EAST OF ROSE STREET AND SOUTH OF MAGPIE DRAIN, ROBLA, JUST NORTH OF SACRAMENTO.  
Comments:  
Distribution: MAPPED ABOUT 0.4 MILE NNE OF WHERE MARYSVILLE ROAD AND RIO LINDA BLVD JOIN. WITHIN THE NW 1/4 OF THE NE 1/4 OF SECTION 10.  
Ecological: SEASONAL WETLAND DOMINATED BY RANUNCULUS BONARIENSIS TRISEPALUS, PLAGIOBOTHRYX BRACTEATUS, LASTHENIA GLABERRIMA, AND ELEOCHARIS MACROSTACHYA. FRITILLARIA AGRESTIS IS FOUND IN NEARBY GRASSLAND.  
Threat: SITE TO BE DEVELOPED, WETLAND DISKED ANNUALLY FOR FIRE BREAK; "DIRT-BIKE" USE AND REFUSE DUMPING ALSO IMPACT THIS SITE.  
General: 1000-10,000 PLANTS OBSERVED IN 1991. PLANTS ROBUST, UP TO 6" TALL. PORTION OF THIS SITE WILL NOT BE DEVELOPED. NO PLANTS SEEN IN 1997 (PROB TOO LATE). HABITAT STILL EXISTS.  
Owner/Manager: PVT

California Department of Fish and Game  
Natural Diversity Data Base

Magpie Creek: Rio Linda Quadrangle

GRATIOLA HETEROSEPALA

BOGGS LAKE HEDGE-HYSSOP  
Element Code: PDSCR0R060

—List Status—	—NDDB Element Ranks—	—Other Lists—
Federal: None	Global: G3	CNPS List: 1B
State: Endangered	State: S3.1	R-E-D Code: 1-2-2

—Habitat Associations—

General: MARSHES AND SWAMPS (FRESHWATER), VERNAL POOLS.

Micro: CLAY SOILS; USUALLY IN VERNAL POOLS, SOMETIMES ON LAKE MARGINS. 5-2400M.

Occurrence No. 3	Map Index:11397	—Dates Last Seen—	Lat/Long: 38°42'20" / 121°26'17"	Township: 10N
Occ Rank: None		Element: XXXX-XX-XX	UTM: Zone-10 N4285053 E635817	Range: 05E
Origin: Natural/Native occurrence		Site: 1997-06-18	Precision: NON-SPECIFIC	Section: 21 Qtr NW
Presence: Possibly Extirpated			Symbol Type: POINT	Meridian: M
Trend: Decreasing			Radius: 1 mile	Elevation: 55 ft
Main Source: BACIGALUPI, R. 1977 (PERS)				
Quad Summary: RIO LINDA (3812164/512B)				
County Summary: SACRAMENTO				
SNA Summary:				
Location: SHALLOW VERNAL POOLS JUST N OF & ADJACENT TO U ST. AT NE BORDER OF RIO LINDA.				
Comments				
Distribution: FOUND IN SEVERAL POOLS.				
Ecological: SHALLOW WATER VERNAL POOLS ON REDDISH ADOBE SOIL.				
Threat:				
General: PLANT SEARCHED FOR IN 1978 BUT NOT FOUND. IN 1977 SITE HAD BEEN PLOWED, HARROWED AND LEVELED FOR A HOUSING TRACT. SURROUNDING AREA HAS BEEN DEVELOPED. SOME HABITAT REMAINED IN 1997, MORE SURVEYS NEEDED.				
Owner/Manager: PVT				